





Arizona Department of Education
Tom Horne, Superintendent of Public Instruction

CTE FACTS

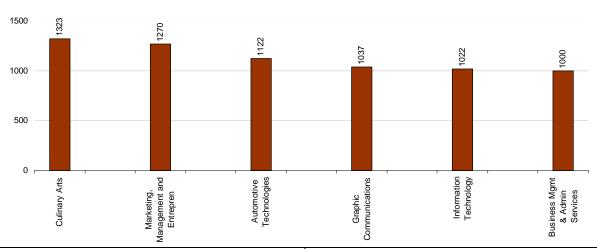


Ensure a dynamic workforce by fully developing every student's career and academic potential.



Prepare Arizona students for workforce success and continuous learning:

TOP CTE PROGRAMS WITH HIGHEST NUMBER OF COMPLETERS – SY2006



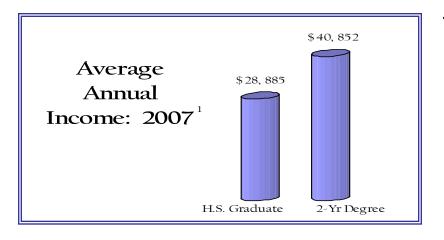
CULINARY ARTS	MARKETING, MANAGEMENT AND ENTREPRENEURSHIP
15,798 PROJECTED OPENINGS	10,043 PROJECTED OPENINGS
FOOD SERVICE MANAGERS \$20.63/HR	SALES REPRESENTATIVES \$25.09/HR
CHEFS AND HEAD COOKS \$18.05/HR	WHOLESALE AND RETAIL BUYERS \$20.75/HR
BUTCHERS AND MEAT CUTTERS \$15.96/HR	FIRST-LINE SPRVR/RETAIL MANAGERS \$17.73/HR
GRAPHIC COMMUNICATIONS	AUTOMOTIVE TECHNOLOGIES
270 PROJECTED OPENINGS	1.056 PROJECTED OPENINGS
JOB PRINTERS \$16.63/HR	AIRCRAFT MECHANIC/SERVICE TECHS \$23.46/HR
PRINTING MACHINE OPERATORS \$13.86/HR	AVIONICS TECHNICIANS \$19.75/HR
DESKTOP PUBLISHERS \$13.69/HR	AUTO BODY AND RELATED REPAIRERS \$18.86/HR
INFORMATION TECHNOLOGY	BUS MANAGEMENT AND ADMIN SRVCS
188 PROJECTED OPENINGS	1.384 PROJECTED OPENINGS
ELECTRICAL/ELECTRONIC ENG TECHS \$21.40/HR	MANAGERS, MISC/OTHER \$34.00HR
COMPUTER SUPPORT SPECIALISTS \$21.04/HR	TRANSPORT/STORAGE/DISTRIBUTION \$29.41/HR
	FIRST-LINE SUPERVISORS/PRODUCTION \$26.76/HR

FOR SY2006 THE DEFINITION OF A COMPLETER WAS A CONCENTRATOR WHO PASSED 80% OF THE TOTAL PROGRAM COMPETENCIES AND ATTAINED 80% OF THE LEVEL III PROGRAM COMPETENCIES. UNDER PERKINS IV THERE ARE NO LONGER COMPLETERS AS THE NEW DEFINITION OF A CONCENTRATOR IS A SECONDARY STUDENT WHO HAS TRANSCRIPTED 3 OR MORE CUS/CREDITS IN A STATE-RECOGNIZED SEQUENCE FOR AN APPROVED CTE PROGRAM (OR IN THE EVENT OF A 2 CU/CREDIT SEQUENCE HAS TRANSCRIPTED BOTH CREDITS).

ARIZONA CAREER AND TECHNICAL EDUCATION PERFORMANCE MEASURES. 2007 PERFORMANCE MEASURES STATEWIDE RESULTS, PM 31 2006 REPORTED COMPLETERS. UNDUPLICATED COUNT.

HTTP://www.ade.az.gov/perfmeasures. 10/02/07.

PROJECTED OPENINGS DATA PRODUCED BY AZ DES IN COOPERATION WITH US. DEPT OF LABOR AND ARE STATE 2005-2015 OCCUPATIONAL EMPLOYMENT PROJECTIONS. HOURLY WAGES CITED ARE
EXAMPLES OF HIGH-SKILL/HIGH-WAGE POSITIONS IN THAT PROGRAM AREA.



The Emerging Green Economy and The future of Clean-Tech Jobs

"The clean-tech sector could produce 50,000 new jobs by **2010''** – K.R. Sidhar, CEO, Bloom Energy (fuel-cell start-up)

By comparison...General Motors' hourly work force currently numbers 73,000.

"The solar sector alone could employ 2 million people by 2020" – Peter Beadle, president of Greenjobs.com

By comparison...there are not that many American elementary school teachers today.



Benchmark Bioscience Programs Around the Nation³

Connecticut Career Choices Funding Approach

(http://www.ctcareerchoices.org/) 605 students across 12 High Schools. through Perkins and State competitive funding. Effectively utilizes online curriculum and collaboration tools.

San Diego High Tech High

(http://www.hightechhigh.org/) 56 students at main campus, with goal of a "village" of 3 high schools, 2 middle schools and an elementary school. Funded through direct state, Perkins and local company funding as well as the Gates Foundation.

Seattle NW Biotech Education and Careers Consortium

(http://www.seattlebiotech.com/education.html) 110 students across 2 campuses. Classes are open to all eight districts in region. Funded through Perkins Act.

NEW AND EMERGING PROGRAMS

THE BIOSCIENCES

- Defined as the study and application of knowledge of how humans, animals and plants function.
- The bioscience industry focuses on five key areas: (1) drugs and pharmaceuticals, (2) hospitals and healthcare, (3) medical devices and instruments, (4) organic and agricultural chemicals, (5) research, testing and laboratories.
- Arizona's internationally-recognized core research strengths are cancer research, neurosciences and bioengineering.
- Since 2001 Arizona has experienced 10,700 new jobs and 50 new firms in the bioscience field.2
- ~ Since 2001 Arizona's non-hospital bioscience job growth rate was 17%. Nationally the growth was only 4%.2
- Nearly all jobs in the bioscience sector require postsecondary education.

For research papers, presentations and supportive material for Arizona's biomedical field visit the Flinn Foundation: http://www.flinn.org/bio/index.cms

To learn about the Governor's initiatives for education visit the Governor's P-20 Education: Council on http://azgovernor.gov/P20/index.asp

For information about the history, lingo, organizations and FAQs on the biosciences in Arizona visit Arizona BioBasics: http://www.arizonabiobasics.com/bioBasicsHome.cms

Created by Steve Peterson, M.Ed., Career and Technical Education, Steve.Peterson@azed.gov. 602-542-5357.